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WHAT IS CLAIMED IS:

- 1. A photomask, comprising:
- a substrate, the substrate comprising a plurality of shielding regions and a plurality of transparent regions, wherein each transparent region is disposed between two adjacent shielding regions and has one depression, and wherein the depression and the shielding region share a same edge; and
- a plurality of shielding patterns disposed on the shielding regions of the substrate, wherein a sidewall of the depression is aligned with a sidewall of the shielding pattern.
- 2. The photomask of claim 1, wherein the shielding pattern is made form an opaque material.
 - 3. The photomask of claim 2, wherein the opaque material includes chromium.
 - 4. The photomask of claim 2, wherein a cross-section of the depression is in a rectangle shape.
 - 5. The photomask of claim 4, wherein a distance between a bottom surface of the depression and a surface of the substrate is allows a generation of a 180-degree phase shift.
 - 6. The photomask of claim 1, wherein the shielding pattern is made from a slightly translucent material with a transmittance rate of 5-10%.
- 7. The photomask of claim 4, wherein the slightly translucent material includes molybdenum silicide.
 - 8. The photomask of claim 6, wherein a cross-section of the depression is in a rectangle shape.

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- 9. The photomask of claim 8, wherein a distance between a bottom surface of the depression and a surface of the substrate is allows a generation of a 360-degree phase shift.
- 10. The photomask of claim 1, wherein a cross-section of the depression is in a rectangle shape.
 - 11. The photomask of claim 1, wherein a cross-section of the depression is in a T shape.
 - 12. A photomask, comprising:
 - a substrate, the substrate comprising a dense pattern region and a loose pattern region, wherein the dense pattern region and the loose pattern region respectively comprise a plurality of shielding regions and a plurality of transparent regions, wherein each transparent region is disposed between two adjacent shielding regions and has one depression, and wherein the depression and the shielding region share a same edge; and
 - a plurality of shielding patterns disposed on the shielding regions of the substrate, wherein a sidewall of the depression is aligned with a sidewall of the shielding pattern.
 - 13. The photomask of claim 12, wherein the shielding pattern is made form an opaque material.
 - 14. The photomask of claim 13, wherein the opaque material includes chromium.
- 20 15. The photomask of claim 13, wherein a cross-section of the depression is in a rectangle shape.
 - 16. The photomask of claim 15, wherein a distance between a bottom surface of the depression and a surface of the substrate allows a generation of a 180-degree phase change.

- 17. The photomask of claim 12, wherein the shielding pattern is made from a slightly translucent material with a transmittance rate of 5-10%.
- 18. The photomask of claim 17, wherein the slightly translucent material includes molybdenum silicide.
- 19. The photomask of claim 17, wherein a cross-section of the depression is in a rectangle shape.
 - 20. The photomask of claim 19, wherein a distance between a bottom surface of the depression and a surface of the substrate allows a generation of a 360-degree phase change.
- 21. The photomask of claim 12, wherein a cross-section of the depression is in a rectangle shape.
 - 22. The photomask of claim 12, wherein a cross-section of the depression is in a T shape.

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